

Title (en)  
PROCESS FOR THE PRODUCTION OF TRANSPARENT, THERMOPLASTIC POLYURETHANE WITH HIGH MECHANICAL STRENGTH AND HARDNESS

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON TRANSPARENTEM, THERMOPLASTISCHEM POLYURETHAN MIT HOHER MECHANISCHER FESTIGKEIT UND HÄRTE

Title (fr)  
PROCÉDÉ DE FABRICATION DE POLYURÉTHANE THERMOPLASTIQUE TRANSPARENT AYANT UNE SOLIDITÉ MÉCANIQUE ET UNE DURETÉ ÉLEVÉES

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Application  
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Abstract (en)  
[origin: WO2015063062A1] The invention relates to thermoplastic polyurethanes that are or can be obtained by reacting at least one aliphatic polyisocyanate; at least one chain extender; and at least one polyol composition, wherein the polyol composition comprises a polyol selected from the group comprising polyetherols and at least one bisphenol derivative selected from the group comprising bisphenol A derivatives having a molecular weight Mw > 315 g/mol and bisphenol S derivatives having a molecular weight Mw > 315 g/mol, wherein at least one of the OH groups of the bisphenol derivative is alkoxylated. The invention further relates to methods for producing such thermoplastic polyurethanes and to the use of a thermoplastic polyurethane according to the invention to produce extrusion products, films, and molded bodies.

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